

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/002247

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G09G3/20 G02F1/1362 G02F1/1345 G02F1/13

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G09G G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 12, 3 January 2001 (2001-01-03) -& JP 2000 241827 A (INTERNATL BUSINESS MACH CORP <IBM>), 8 September 2000 (2000-09-08)	1-6,8-17
Y	abstract	7
P,X	the whole document & US 6 624 868 B1 (KIYOOKA FUMITOSHI ET AL) 23 September 2003 (2003-09-23) abstract column 2, line 6 - column 5, line 30; claims 1-4,13,21; figures 1-4	1-6,8-17
Y	US 2003/117359 A1 (PARK HYONG YERL) 26 June 2003 (2003-06-26) paragraphs '0009!, '0034! - '0036!; figure 4	7

-/--

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

8 document member of the same patent family

Date of the actual completion of the international search

26 October 2004

Date of mailing of the international search report

05/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Wolff, L

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/002247

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 467 210 A (KISHIGAMI MASAMITSU) 14 November 1995 (1995-11-14)	1-6,8-17
Y	abstract column 3, line 46 - column 8, line 28; claims 1,11,13,15; figures 2,4,5 -----	7
X	US 6 567 064 B1 (PARK KWANG GYUN ET AL) 20 May 2003 (2003-05-20) abstract column 1, line 14 - column 4, line 48; figures 1,3 -----	1,13
A	US 6 229 510 B1 (CHOI MIN-SUNG ET AL) 8 May 2001 (2001-05-08) column 6, line 19 - column 8, line 27; figures 8,10 -----	1-13
A	US 5 889 568 A (SERAPHIM DONALD P ET AL) 30 March 1999 (1999-03-30) abstract column 6, lines 53-62; figures 6,13 column 8, lines 6-10 column 9, lines 23-30 column 14, lines 20-24 column 16, lines 7-24 -----	7-9, 15-17

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

WIPO/IB2004/002247

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2000241827	A	08-09-2000	US 6624868 B1	23-09-2003
US 6624868	B1	23-09-2003	JP 2000241827 A	08-09-2000
US 2003117359	A1	26-06-2003	KR 2003054897 A	02-07-2003
US 5467210	A	14-11-1995	JP 6242462 A	02-09-1994
			JP 3237038 B2	10-12-2001
			JP 6342166 A	13-12-1994
US 6567064	B1	20-05-2003	KR 2001028536 A	06-04-2001
US 6229510	B1	08-05-2001	KR 271092 B1	01-11-2000
			JP 11133379 A	21-05-1999
			TW 505814 B	11-10-2002
US 5889568	A	30-03-1999	US 6262696 B1	17-07-2001